Rpt. C.11.

Lloyd's R[egister]

SURVEYS [at]

Continuation of Report No. *dated* *on the*

Ad. 27730

Computation of Freeboard for Steamer, ~~Sailing S~~

Having POOP BRIDGE & FORECASTLE

(Type of Superstructures.)

Ship's Name	Nationality and Port of Registry	Official Numb
WINSUM	Dutch Amsterdam	-

Moulded Dimensions: Length 101.19 Breadth 14.63 Depth

Moulded displacement at moulded draught = 85 per cent. of moulded depth

Coefficient of fineness for use with Tables .790

Depth for Freeboard (D)

Moulded depth ... ...

Stringer plate ... ...

Sheathing on exposed deck

$T\left(\frac{L-S}{L}\right)$ =

Depth for Freeboard (D) = 7.518

Depth correct

(a) Where D is greater than Table d
(D—Table depth) R =

+ .1

(b) Where D is less than Table depth (if allowe
(Table depth—D) R =

If restricted by superstructures

Restr
Correction =

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S_1)	Height	Height Correction	Effective Length (E)
Poop enclosed					
„ overhang					
R.Q.D. enclosed ...					
„ „ overhang ...					
Bridge enclosed					
„ overhang aft ...					
„ overhang forward					
F'cle enclosed					
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft ...					
„ „ forward					
Total					43,681

Standard Height of Superstruc

„ „ R.Q.D.

Deduction for complete superstruc

Percentage covered $\frac{S}{L}$ =

„ „ $\frac{S_1}{L}$ =

„ „ $\frac{E}{L}$ =

Percentage from Table, Line A. —

(corrected for absence of forecastle (if required)) —

Percentage from Table, Line B. Timber 64.98

(corrected for absence of forecastle (if required)) —

Interpolation for bridge less than ·2L (if required) —

Deduction = .952 × .6498 = .619

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
L from A.P. ...		4				4	
L „ ...		2				2	
Amidships ...		4				4	
L from F.P. ...		2				2	
L „ ...		4				4	
F.P.		1				1	
Total ...							

Correction = $\frac{\text{Difference between sums of products}}{18}\left(.75-\frac{S}{2L}\right)$ =

If limited on account of midship superstructure.

Mean actual sheer aft / Mean standard sheer aft =

Mean actual sheer forward / Mean standard sheer forward =

Length of enclosed superstructure / L forward of amidships =

„ „ aft of „ =

+ .005

If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 7.518

Summer freeboard = .960

Moulded draught (d) = 6.558

Deduction for Tropical freeboard ~~and addition for Winter freeboard~~ = $\frac{d}{48}$ ~~inches~~ = 14 cm

Addition for Winter ~~North Atlantic~~ Freeboard (if required) = $\frac{d}{36}$ = 18 cm.

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ =

Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\Delta}{40\,T}$ inches

=

14 c.m.

TABULAR FREEBOARD ~~corrected for Flush Deck (if required)~~ 1.413

Correction for coefficient

	+	−
Depth Correction	.164	—
Deduction for superstructures	—	.619
Sheer correction	.005	—
Round of Beam correction	—	.002
Correction for Thickness of Deck amidships ...	—	—
Other corrections, scantlings, etc.	—	—
	.169	.621

−.452

Summer Freeboard = .961

TIMBER. **SUMMER FREEBOARD** amidships from ~~Centre of Disc to~~ top of Deck Line, ~~Wood~~, Steel, Deck :— 96 c.m.

TIMBER	Tropical Fresh Water Line above Centre of Disc ...	6.0 cm	TIMBER	Tropical Fresh Water Freeboard ... ... 68 "
"	Fresh Water Line „ „ ...	4.6 "	"	" Fresh Water „ ... ... 82 "
"	Tropical Line „ „ ...	4.6 "	"	" Tropical „ ... ... 82 "
"	Winter Line ~~below~~ ABOVE. „ ...	1.4 "	"	" Winter „ ... ... 114 "
"	Winter North Atlantic Line BELOW ABOVE „ ...	1.4 "	"	" Winter North Atlantic „ ... ... 182 "
"	SUMMER	3/2 "		

2 AUG 1932

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